

# A History of Science

<b>Overview</b>	Students will collaborate in groups of 2-4 students to present information to the class about a scientist of historical importance using the LiveDocuments web application. This is a project that will probably take at least a week, depending on how many students you have.
<b>Students</b>	<ul style="list-style-type: none"> <li>- 9<sup>th</sup>-12<sup>th</sup> grade</li> <li>- Written for a general science/integrated chemistry-physics class, but could be easily adapted for use in other classes.</li> </ul>
<b>Objective</b>	After researching a scientist of historical importance, students will give a short presentation to the rest of the class with at least 5 identifiable main topics related to said scientist.
<b>Standards</b>	<p>IN CP-2: <i>Students gain understanding of how the scientific enterprise operates through examples of historical events.</i></p> <p>IN Language Arts Core Standard 4, 8</p>
<b>Environment</b>	Students will need access to computers & the Internet, in addition to additional research material. For presentation, there will need to be a computer with a projector in the classroom.
<b>Procedure</b>	<ol style="list-style-type: none"> <li>1. Begin by having each student create a LiveDocuments account. They will be using LiveDocuments to create &amp; store their work for this project.</li> <li>2. Have the students divide up into teams of 2-4 students, and have each team appoint a leader.             <ol style="list-style-type: none"> <li>a. All team members should create a new LiveDocuments Writer document to hold individual research</li> <li>b. The team leader should also create a new LiveDocuments Presentations document that the team will end up presenting to the class.</li> <li>c. Research documents should be shared with all team members so everyone can read &amp; comment on them.</li> <li>d. The presentation should be shared with all team members so everyone can modify it.</li> </ol> </li> <li>3. Assign each group a scientist to research (there is a list to start with on the next page), and have them start researching their scientist.             <ol style="list-style-type: none"> <li>a. Students should transfer useful information, with citations, to their individual Writer document.</li> </ol> </li> <li>4. The team should look at their research and pick out the 5+ topic points to cover in their presentation. The team leader should then appoint everyone points to cover, and to start working on the presentation, as well as doing more research if needed.</li> <li>5. The final presentations should at least include an introduction slide, 1-3 slides per topic, and a citation slide.</li> <li>6. Once all the teams are finished creating the presentations, the teams should get up in front of the rest of the class and present their information.</li> </ol>
<b>Evaluation</b>	<p>Students should be graded on the following areas:</p> <ul style="list-style-type: none"> <li>- Quality of information</li> <li>- Properly citing their research</li> <li>- Quality of the presentation (everyone in the group speaking, speaking clearly, etc)</li> <li>- Quality of the slide show</li> <li>- Presenting a minimum of 5 main points</li> </ul>

## *A List of Scientists*

*Depending on your grade level/subject, some may be more appropriate than others*

- *Albert Einstein*
- *Sir Isaac Newton*
- *Galileo Galilei*
- *Charles Darwin*
- *Johannes Kepler*
- *Louis Pasteur*
- *James Maxwell*
- *Emil Fisher*
- *Paul Dirac*
- *Archimedes*
- *Marie Curie*
- *Thomas Edison*
- *Max Planck*
- *Nikola Tesla*
- *Aristotle*
- *Leonardo da Vinci*
- *Benjamin Franklin*
- *Niels Bohr*
- *Nicholas Copernicus*
- *Rene Descartes*
- *Wilhelm Röntgen*
- *Carl Sagan*
- *Jane Goodall*
- *Alexander Graham Bell*
- *Chandrasekhara Raman*
- *Ernest Rutherford*
- *Joseph Thompson*
- *William Ramsay*
- *Alfred Nobel*
- *William Thompson*
- *James Joule*
- *Julius von Mayer*
- *Henry Bessemer*
- *Thomas Graham*
- *Michael Faraday*
- *Johann Dobereiner*
- *Amedeo Avogadro*
- *William Henry*
- *John Dalton*
- *Alessandro Volta*
- *Antoine Lavoisier*
- *Charles Augustin de Coulomb*
- *Henry Cavendish*
- *Thomas Newcomen*
- *Robert Boyle*
- *Blaise Pascal*
- *Jonas Salk*